CITY OF LINCOLN **COUNTY OF LANCASTER**

Vince M. Mejer, CPPO, C.P.M. Purchasing Agent

(402) 441-7410 FAX: (402) 441-6513 purchasing@ci.lincoln.ne.us

TELEPHONE

EMPLOYER FEDERAL ID NO. OR

SOCIAL SECURITY NUMBER __

QUOTATION REQUEST

Quote Prices F.O.B. Destination Lincoln, Nebraska

Date -	3/24/04
Order No	1507 OQ
Date Due -	03/30/04

QUOTATIONS MUST BE RECEIVED IN THE PURCHASING DIVISION OFFICE BY THE DUE DATE SPECIFIED ABOVE

PLEASE MAKE NECESSARY VENDOR

INFORMATION CORRECTIONS ON THIS FORM:				
VENDOR INFORMATION		Purchasi K-Street 440 S 8t Lincoln	rn Quotation Request To: ing Division : Complex :h St Ste 200 NE 68508 : Tom - Quotes	Buyer
Item Number / Description				Total Price
94155000000 HVAC Systems Maint. and Repair , Power Plant Standard Duty-Vertical Wall Mou Electric Motor rated for 120 VA with guard shields, 8000 cfm ca in 36"x36" square opening. Gra equal	nt Supply Far C Service V H pacity. For	2 EA n with Belt Drive installat	ion	
Mfg	Model			
94155000000 HVAC Systems Maint. and Repair , Power Plant Galvanized Weather Hood equipped Replaceable inlet air filter a Sized for 36" square wall open Grainger Model 4YD08 or equal.	d as follows: and bird scre			
Mfg	Model			
94155000000 HVAC Systems Maint. and Repair , Power Plant	DORMUSEON		OLLOWING	
The undersigned represents and warrants that he/s	she has full and com	plete authority	to submit this quotation and	to enter into a contract upon
acceptance by the City/County. The undersigned a				
ADDRESS			T NAME) RE	
		TITLE		

DATE _

DELIVERY SCHEDULE ___

DAYS ARO

CITY OF LINCOLN COUNTY OF LANCASTER

Vince M. Mejer, CPPO, C.P.M. Purchasing Agent

at 402/441-6513.

(402) 441-7410 Fax: (402) 441-6513

QUOTATION REQUEST

Quote Prices F.O.B. Destination Lincoln, Nebraska

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PLEASE MAKE NECESSARY VENDOR INFORMATION CORRECTIONS ON THIS FORM:

g Division Complex St Ste 200 E 68508 Tom - Quotes	Buyer
	Total Price
	the

VENDOR MUST C	COMPLETE THE FOLLOWING
The undersigned represents and warrants that he/she has full and acceptance by the City/County. The undersigned agrees to comp	complete authority to submit this quotation and to enter into a contract upon ly with all conditions above and on reverse side of this document.
COMPANY NAME	
ADDRESS	
N.S.	TITLE
TELEPHONE	DATE

EMPLOYER FEDERAL ID NO. OR DELIVERY SCHEDULE _______ DAYS ARO

AMERICAN COOLAIR CORPORATION

P. O. Box 2300, Jacksonville, Florida 32203

Phone: 904-389-3646 Fax: 904-387-3449 E-mail: info@coolair.com

STANDARD FEATURES

Free area at perimeter equals 100% of throat area.

Hood constructed of .050" aluminum. Base constructed of .080" aluminum.

Hood reinforced and braced for extra strength with wide overhang for storm protection.

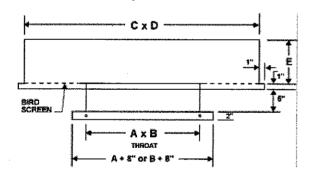
Hood assembled with standing and snap back seams secured with spot welds.

All curb cap comers miter cut and continuous welded.

Bird screen of 1/2x 1/2 mesh galvanized welded wire.

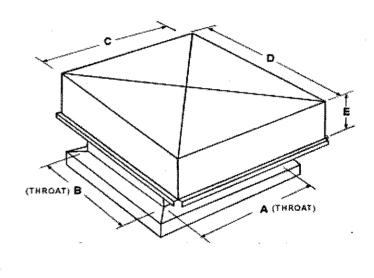
OPTIONS

- · Hinged hood.
- · Anti-condensate coating.
- 1" fiberglass insulation.
- * Aluminum Insect Screen.
 - · Aluminum mesh deanable filters, 1" or 2" thick.
 - 100 MPH construction.
 - · Snow screen: bird screen plus insect screen.
 - · Protective or decorative coatings.
- * . Manual Damper



Trimline™ Exhaust Vent Type TEV

PROJECT	
LOCATION	
ARCHITECT	
ENGINEER	
CONTRACTOR	
SUBMITTED BY	
DATE	P.O. NO.



SPECIFICATIONS AND DIMENSIONS							
REFERENCE	QUAN.	Throat Width A	Throat Length B	Hood Width C	Hood Length D	Hood Height E	OPTIONS
	4	18"	42"				
•	,						



(ENGINEERS) SUBMITTAL DATA

Ventilator Hoods

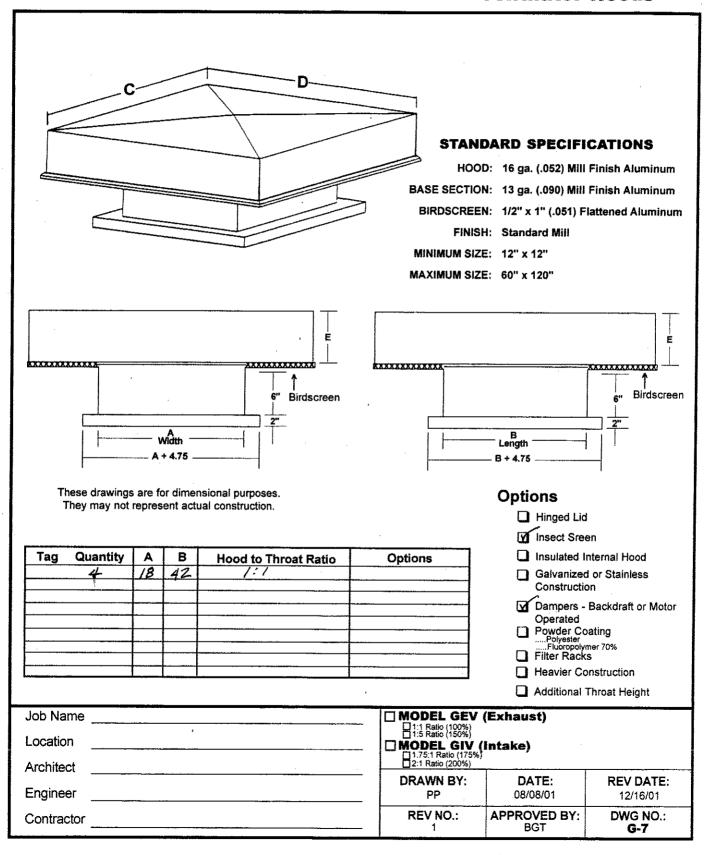


TABLE 1

				IOM	DEL G	EV 1:	1 (Ex	haust))		:			
		A = Throat Width in Inches												
		12	16	20	24	30	36	42	48	54	60			
ş	12	23, 23, 3												
	16	23, 29, 3.5	29, 29, 4							This table displays				
he	20	23, 34, 4	29, 34, 4.5	34, 34, 5						nsions C, D, & le: A x B = 12				
<u> </u>	24	23, 40, 4.5	29, 40, 5	34, 40, 5.5	40, 40, 6					23, 23, 3] []			
in Inches	30	23, 48, 5.5	29, 48, 6	34, 48, 6.5	40, 48, 7	48, 48, 7.5				C, D, E				
	36	23, 57, 6	29, 57, 6.5	34, 57, 7	40, 57, 7.5	48, 57, 8.5	57, 57, 9							
ng	42	23, 65, 7	29, 65, 7.5	34, 65, 8	40, 65, 8.5	48, 65, 9	57, 65, 10	65, 65, 10.5						
Length	48	23, 74, 7.5	29, 74, 8	34, 74, 8.5	40, 74, 9	48, 74, 10	57, 74, 10.5	65, 74, 11.5	74, 74, 12					
	54	23, 82, 8.5	29, 82, 9	34, 82, 9	40, 82, 10	48, 82, 10.5	57, 82, 11.5	65, 82, 12	74, 82, 13	82, 82, 13.5				
Throat	60	23, 91, 9	29, 91, 9.5	34, 91, 10	40, 91, 10.5	48, 91, 11.5	57, 91, 12	65, 91, 13	74, 91, 13.5	82, 91, 14.5	91, 91, 15			
F	72	23, 108, 10.5	29, 108, 11	34, 108, 11.5	40, 108, 12	48, 108, 13	57, 108, 13.5	65, 108, 14.5	74, 108, 15	82, 108, 16	91, 108, 16.5			
	84	23, 125, 12	29, 125, 12.5	34, 125, 13	40, 125, 13.5	48, 125, 14.5	57, 125, 15	65, 125, 16	74, 125, 16.5	82, 125, 17.5	91, 125, 18			
m	96	23, 142, 13.5	29, 142, 14	34, 142, 14.5	40, 142, 15	48, 142, 16	57, 142, 16.5	65, 142, 17.5	74, 142, 18	82, 142, 19	91, 142, 19.5			
	108	23, 159, 15	29, 159, 15.5	34, 159, 16	40, 159, 16.5	48, 159, 17.5	57, 159, 18	65, 159, 19	74, 159, 19.5	82, 159, 20.5	91, 159, 21			
	120	23, 176, 16.5	29, 176, 17	34, 176, 17.5	40, 176, 18	48, 176, 19	57, 176, 19.5	65, 176, 20.5	74, 176, 21	82, 176, 22	91, 176, 22.5			

TABLE 2

				MOD	EL GI	EV 1.5	5:1 (E	xhaus	t)					
		A = Throat Width in Inches												
		12	16	20	24	30	36	42	48	54	60			
	12	24, 24, 4.5									<u> </u>			
g	16	24, 30, 5.5	30, 30, 6							This table display				
l e	20	24, 37, 6	30, 37, 7	37, 37, 7.5						nsions C, D, ie: A x B = 20				
Inches	24	24, 43, 7	30, 43, 7.5	37, 43, 8.5	43, 43, 9					37, 43, 8.5] [
<u> </u>	30	24, 52, 8	30, 52, 9	37, 52, 9.5	43, 52, 10.5	52, 52, 10.5				C, D, E				
	36	24, 62, 9	30, 62, 10	37, 62, 10.5	43, 62, 11.5	52, 62, 11.5	62, 62, 13.5							
g	42	24,71,10.5	30, 71, 11	37, 71, 12	43, 71, 12.5	52, 71, 12.5	62, 71, 15	71,71,16						
Length	48	24, 81, 11.5	30, 81, 12	37, 81, 13	43, 81, 13.5	52, 81, 13.5	62, 81, 16	71, 81, 17	81, 81, 18					
3	54	24, 90, 12.5	30, 90, 13.5	37, 90, 14	43, 90, 15	52, 90, 15	62, 90, 17	71, 90, 18	81, 90, 19.5	90, 90, 20.5				
Throat	60	24, 100, 13.5	30, 100, 14.5	37, 100, 15	43, 100, 16	52, 100, 16	62, 100, 18	71, 100, 19.5	81, 100, 20.5	90, 100, 21.5	100, 100, 22.5			
두	72	24, 119, 16	30, 119, 16.5	37, 119, 17.5	43, 119, 18	52, 119, 18	62, 119, 20.5	71, 119, 21.5	81, 119, 22.5	90, 119, 24	100, 119, 25			
11	84	24, 138, 18	30, 138, 19	37, 138, 19.5	43, 138, 20.5	52, 138, 20.5	62, 138, 22.5	71, 138, 24	81, 138, 25	90, 138, 26	100, 138, 27			
m	96	24, 157, 20.5	30, 157, 21	37, 157, 22	43, 157, 22.5		62, 157, 25	71, 157, 26	81, 157, 27	90, 157, 28.5	100, 157, 29.5			
	108	24, 176, 22.5	30, 176, 23.5	37, 176, 24	43, 176, 25	52, 176, 26	62, 176, 27	71, 176, 28.5	81, 176, 29.5	90, 176, 30.5	100, 176, 31.5			
	120	24, 195, 25	30, 195, 25.5	37, 195, 26.5	43, 195, 27	52, 195, 28.5	62, 195, 29.5	71, 195, 30.5	81, 195, 31.5	90, 195, 33	100, 195, 34			

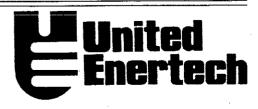


TABLE 3

!		· · · · · · · · · · · · · · · · · · ·		MOD	EL G	IV 1.7	'5:1 (Intake)					
		A = Throat Width in Inches												
		12	16	20	24	30	36	42	48	54	60	0_		
	12	25, 25. 5.5												
ທູ	16	25, 31, 6.5	31, 31, 7							This table display				
Inches	20	25, 38, 7	31, 38, 8	38, 38, 9						ensions C, D, a ble: A x B = 12				
2	24	25, 45, 8	31, 45, 9	38, 45,10	45, 45,10.5					25, 25, 5.5		<u> </u>		
<u>n</u>	30	25, 55, 9.5	31, 55, 10.5	38, 55, 11	45, 55, 12	55, 55, 13.5			•	C, D, E				
岳	36	25, 65, 10.5	31, 65, 11.5	38, 65, 12.5	45, 65, 13.5	55, 65, 14.5	65, 65, 16							
ng	42	25, 75, 12	31, 75, 13	38, 75, 14	45, 75, 14.5	55, 75, 16	65, 75, 17 <i>.</i> 5	75, 75, 18.5						
Leng	48	25, 84, 13.5	31, 84, 14	38, 84, 15	45, 84, 16	55, 84, 17.5	65, 84, 18.5	75, 84, 20	84, 84, 21					
at	54	25, 94, 14.5	31, 94, 15.5	38, 94, 16.5	45, 94, 17.5	55, 94, 18.5	65, 94, 20	75, 94, 21	84, 94, 22.5	94, 94, 24				
Throat	60	25, 104, 16	31, 104, 17	38, 104, 17.5	45, 104, 18.5	55, 104, 20	65, 104, 21	75, 104, 22.5	84, 104, 24	94, 104, 25	104, 104	4, 26.		
뉴	72	25, 124, 18.5	31, 124, 19.5	38, 124, 20.5	45, 124, 21	55, 124, 22.5	65, 124, 24	75, 124, 25	84, 124, 26.5	94, 124, 28	104, 12	4, 29		
11	84	25, 144, 21	31, 144, 22	38, 144, 23	45, 144, 24	55, 144, 25	65, 144, 26.5	75, 144, 28	84, 144, 29	94, 144, 30.5	104, 144	1, 31.5		
Ω	96	25, 164, 24	31, 164, 24.5	38, 164, 25.5	45, 164, 26.5	55, 164, 28	65, 164, 29	75, 164, 30.5	84, 164, 31.5	94, 164, 33	104, 164	4, 34.		
	108	25, 184, 26.5	31, 184, 27.5	38, 184, 28	45, 184, 29	55, 184, 30.5	65, 184, 31.5	75, 184, 33	84, 184, 34.5	94, 184, 35.5	104, 18	4, 37		
	120	25, 204, 29	31, 204, 30	38, 204, 31	45, 204, 31.5	55, 204, 33	65, 204, 34.5	75, 204, 35.5	84, 204, 37	94, 204, 38.5	104, 204	1, 39.5		

TABLE 4

				MC	DEL	GIV 2	:1 (In	take)						
		A = Throat Width in Inches												
		12	16	20	24	30	36	42	48	54	6	0		
	12	26, 26, 6												
Ø	16	26, 33, 7	33, 33, 8						This table display					
l å	20	26, 40, 8	33, 40, 9	40, 40, 10						dimensions C, D, 8 Example: A x B = 30				
in Inche	24	26, 46, 9	33, 46, 10	40, 46, 11	46, 46, 12				57, 57, 15]			
	30	26, 57, 10.5	33, 57, 11.5	40, 57, 12.5	46, 57, 13.5	57, 57, 15				C, D, E				
E	36	26, 67, 12	33, 67, 13	40, 67, 14	46, 67, 15	57, 67, 16.5	67, 67, 18							
Length	42	26, 78, 13.5	33, 78, 14.5	40, 78, 15.5	46, 78, 16.5	57, 78, 18	67, 78, 19.5	78, 78, 21						
[[48	26, 88, 15	33, 88, 16	40, 88, 17	46, 88, 18	57, 88, 19.5	67, 88, 21	78, 88, 22.5	88, 88, 24					
ᄩ	54	26, 98, 16.5	33, 98, 17.5	40, 98, 18.5	46, 98, 19.5	57, 98, 21	67, 98, 22.5	78, 98, 24	88, 98, 25.5	98, 98, 27				
Throat	60	26, 109, 18	33, 109, 19	40, 109, 20	46, 109, 21	57, 109, 22.5	67, 109, 24	78, 109, 25.5	88, 109, 27	98, 109, 28.5	109, 10	9, 30		
F	72	26, 130, 21	33, 130, 22	40, 130, 23	46, 130, 24	57, 130, 25.5	67, 130, 27	78, 130, 28.5	88, 130, 30	98, 130, 31.5	109, 13	0, 33		
	84	26, 150, 24	33, 150, 25	40, 150, 26	46, 150, 27	57, 150, 28.5	67, 150, 30	78, 150, 31.5	88, 150, 33	98, 150, 34.5	109, 15	0, 36		
m	96	26, 171, 27	33, 171, 28	40, 171, 29	46, 171, 30	57, 171, 31.5	67, 171, 33	78, 171, 34.5	88, 171, 36	98, 171, 37.5	109, 17	1, 39		
	108	26, 192, 30	33, 192, 31	40, 192, 32	46, 192, 33	57, 192, 34.5	67, 192, 36	78, 192, 37.5	88, 192, 39	98, 192, 40.5	109, 19	2, 42		
	120	26, 213, 33	33, 213, 34	40, 213, 35	46, 213, 36	57, 213, 37.5	67, 213, 39	78, 213, 40.5	88, 213, 42	98, 213, 43.5	109, 21	3, 45		





(ENGINEERS) SUBMITTAL DATA

Models GEV, GIV Static Pressure Loss

MODELS GEV, GIV STATIC PRESSURE LOSS (inches w.g.)

Throat Velocity	100% (1:1 Ratio)	150% (1.5:1 Ratio)	175% (1.75:1 Ratio)	200% (2:1 Ratio)
	EXHAUST	EXHAUST	INTAKE	INTAKE
300 FPM	.015	.005	.006	.005
400 FPM	.024	.011	.014	.013
500 FPM	.032	.013	.025	.021
600 FPM	.045	.020	.039	.034
700 FPM	.060	.035	.053	.051
800 FPM	.080	.047	.068	.066
900 FPM	.106	.065	.094	.086
1000 FPM	.133	.084	.118	.106
1100 FPM	.164	.103	.141	.129
1200 FPM	.198	.123	.166	.153

Add to above .03 - 18 mesh insect screen .14 - Standard 1" filter

Note: Intake ventilators Hood velocity should not exceed 600 FPM

NOTES:

(1) Throat Velocity (FPM)

Hood Velocity (FPM) x 1 = 100% Free Area x 1.5 = 150% Free Area x 1.75 = 175% Free Area

x 2 = 200% Free Area

Example: 600 FPM Hood Velocity FPM x 2 (200%) = 1200 FPM Throat FPM

(2) Throat Velocity (FPM)

Hood Velocity (FPM) / 1 = 100% Free Area

/ 1.5 = 150% Free Area /1.75 = 175% Free Area

Example: 1200 FPM Hood Velocity FPM / 2 (200%) = 600 FPM Hood FPM

(3) Throat Size

CFM / Throat (FPM)

Example:9000 CFM / 1000 Throat FPM = 9 Sq. Ft.

SELECTION: (Example): CFM (Given)

9000 CFM

9000 CFM / 1000 Throat FPM = 9 Sq. Ft. Throat size required

9 Sq. Ft. = 36" x 36" Throat size

SELECTION: (Example): CFM & Hood FPM (Given)

12" x 12" Throat (GIV 175%)

50 CFM / 1 sq. ft. = 50 FPM Throat

50 FPM Throat / 1.75 = 29 FPM Hood Velocity

Select: GIV (200%)

1000 FPM Throat Velocity / 2 = 500 FPM Hood Velocity

See above table for pressure loss 1000 FPM (Throat Intake) 200% = .106 w.g.

Job Name:			
Location:	DRAWN BY:	DATE:	REV. DATE: 8-14-03
Architect:			
Engineer:	REV. NO.	APPROVED BY:	DWG. NO.:
Contractor:	1	BGT	G-10

PURCHASING DIVISION CITY OF LINCOLN AND LANCASTER COUNTY, NEBRASKA INSTRUCTIONS TO BIDDERS

- 1. <u>BIDDING PROCEDURE</u> A bid by a corporation must be signed in the name of such organization by a duly authorized official thereof. Any person signing a bid for a firm, corporation, or other organization must show evidence of his authority so to bind such firm, corporation, or organization. Most departments of the City of Lincoln and Lancaster County agencies are exempt from federal excise taxes and state and local sales and use taxes. Kindly bid without taxes. The City/County will be responsible for paying any taxes which may be due.
- 2. FAIR EMPLOYMENT PRACTICES Each bidder agrees that he/she will not discriminate against any employee or applicant for employment because of age, race, color, religion, ancestry, national origin, disability, sex or marital status, and that he will take affirmative action to assure that applicants are employed and that employees are treated during employment without regard to age, race, color religion, ancestry, national origin, disability, sex or marital status.
- 3. DATA PRIVACY Bidder agrees to abide by all applicable State and Federal laws and regulations concerning the handling and disclosure of private and confidential information concerning individuals and corporations as to inventions, patents and patent rights. The bidder agrees to hold the City/County harmless from any claims resulting from the bidder's unlawful disclosure or use of private or confidential information.
- 4. <u>INDEPENDENT PRICE DETERMINATION</u> By signing and submitting this bid, the bidder certifies that: The prices in this bid have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
- 5. CLARIFICATION OF SPECIFICATION DOCUMENTS Bidders shall promptly notify the Purchasing Agent of any ambiguity, inconsistency or error which they may discover upon examination of the specification documents. Interpretations, corrections and changes made to the specification documents will be made by written addenda. Oral interpretations or changes to the Specification Documents made in any other manner, will not be binding on the City/County; and bidders shall not rely upon such interpretations or changes. No addendum will be issued later than forty-eight (48) hours prior to the date and time for receipt of bids, except: An addendum withdrawing or postponing the invitation to bid
- 6. BRAND NAMES If and wherever in the material specifications or proposal form brand names, make, manufacturer, trade name, or vendor catalog number is specified, it is for the purpose of establishing a grade or quality of material only; and the term "or equal" is deemed to follow. It is the bidder's responsibility to identify any alternate items offered in the bid, and prove to the City/County that said item is equal to or better than the product specified. If variations are not stated in the proposal, it will be assumed that the item being bid fully complies with the City/County's specifications.
- 7. <u>DEMONSTRATION/SAMPLES</u> If requested, the bidders shall, at bidder's expense, demonstrate and/or furnish samples of the exact item(s) proposed within seven (7) calendar days from receipt of such request from the City/County.
- 8. <u>DELIVERY</u> Each bidder shall state on his proposal form the date upon which he can make delivery of all equipment or merchandise. F.O.B. to the City/County at the location specified by the City/County, with all transportation charges paid.
- 9. WARRANTIES, GUARANTEES AND MAINTENANCE A copy of the manufacturer's warranties and/or guarantees for the items being bid must accompany your proposal. A copy of your company's maintenance policies and costs must also accompany your proposal. Replacement parts of defective components shall be shipped to the City/County at no cost. If defective parts are required to be returned to the bidder, the shipping costs shall be borne by the bidder.
- 10. ACCEPTANCE OF MATERIAL The finished materials must be new, the latest make or model, of the best quality, unless otherwise specified, and the highest grade workmanship. The material delivered under this proposal shall remain the property of the bidder until a physical inspection and actual usage of this material and/or service is made, and thereafter is accepted by the City/County. The material delivered must be fully in accord with specification documents. In the event the material and/or services supplied to the City/County is found to be defective or does not conform to specification documents, the City/County reserve the right to cancel the order upon written notice to the bidder and return materials to bidder at the bidder's expense. Successful bidder shall be required to furnish title to the material, free and clear of all liens and encumbrances, issued in the name of the City of Lincoln or Lancaster County, Nebraska, as required by the contract documents or purchase orders. Selling dealer's advertising decals, stickers or other signs shall not be affixed to the equipment; vehicle mud flaps shall be installed blank side out with no advertisements. Manufacturer's standard production forings, stampings, nameplates and logos are acceptable.
- BID EVALUATION AND AWARD The signed bid shall be considered an offer on the part of the bidder. Such offer shall be deemed accepted upon issuance by the City/County of purchase orders, contract award notifications, or other contract documents appropriate to the work. No bid shall be modified or withdrawn for a period of sixty (60) calendar days after the time and date established for receiving bids, and each bidder so agrees in submitting the bid. In case of a discrepancy between the unit prices and their extensions, the unit price shall govern. The City/County reserve the right to accept or reject any or all bids, or part of bids, to waive irregularities and technicalities, and to request rebids on the material described in the specification documents.
- 12. <u>TERMS OF PAYMENT</u> Unless other specification provisions state otherwise, payment in full will be made by the City/County within thirty (30) calendar days after all labor has been performed and all equipment or other merchandise has been delivered, and all such labor and equipment and other materials have met all contract specifications.
- 13. <u>LAWS</u> The Laws of the State of Nebraska shall govern the rights, obligations, and remedies of the Parties under this proposal and any agreement reached as a result of this process.